

CLAIMS

1. A device for position determination in a sensorless direct current motor, comprising a plurality of inductivities arranged in corresponding phases and inducing alternating voltages in a motor winding; a plurality of resistances located in phase branches to be evaluated for a position determination of a rotor position of the sensorless direct current motor; and a plurality of comparator components each associated with the corresponding phase branch to be evaluated.

2. A device as defined in claim 1; and further comprising an OR-circuit for comparing a corresponding voltage of the phase to be controlled with a voltage in a reference branch.

3. A device as defined in claim 1, wherein said phase branches include a not selected phase branch with a transistor element at

a reference potential during an evaluation of a phase branch of the not selected phase branch.

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4. A device as defined in claim 3, wherein said resistor element is selected from the group consisting of a series pass transistor and a field effect transistor.

5. A device as defined in claim 1, wherein each phase branch is provided with a transistor element and one of said resistors which produces a voltage drop.

6. A device as defined in claim 1, wherein all said comparator components are connected at an output side with a common output.

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